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Back to PALM | ASSIGNMENT | OASIS | Home page

US 20060110937 A1	20060525	Method for fabricating an ultralow dielectric constant material as an intralevel or interlevel dielectric in a semiconductor device and electronic device made	438/778		Gates; Stephen M. et al.
US 20060109588 A1	20060525	Method of making a perpendicular recording magnetic head pole tip with an etchable adhesion CMP stop layer	360/126		Le; Quang et al.
US 20060096612 A1	20060511	System and method for aligning wafers within wafer processing equipment	134/2	134/34; 134/94.1	Feng; Jian- Huei et al.
US 20060092564 A1	20060504	Method for manufacturing a stitched "floating" trailing shield for a perpendicular recording head	360/126		Le; Quang
US 20060092563 A1	20060504	Magnetic head with common seed layer for coil and pedestal	360/126		Le; Quang
US 20060091559 A1	20060504	Hardmask for improved reliability of silicon based dielectrics	257/775	438/638; 438/790	Nguyen; Son Van et al.
US 20060079099 A1	20060413	Ultra low k plasma enhanced chemical vapor deposition processes using a single bifunctional precursor containing both a SiCOH matrix functionality and organic porogen functionality	438/789	438/790	Nguyen; Son Van et al.
US 20060055004 A1	20060316	Low K and ultra low K SiCOH dielectric films and methods to form the same	257/632	257/E23.167	Gates; Stephen M. et al.
US	20060302	Self aligned wrap	360/126		Le; Quang

20060044682		around shield for			et al.
A1		perpendicular			
		magnetic recording			
US	20060302	Write pole and method	360/126	360/119	Le; Quang
20060044681		of manufacturing the			et al.
A1		same			
US	20060216	Method and system	714/4		Anglin;
20060036893		for debugging			Debbie Ann
A1		Ethernet			et al.
US	20060202	Method and apparatus	360/125		Le; Quang
20060023352		for providing a reverse			et al.
A1		air bearing surface			
		head with trailing			
		shield design for			
		perpendicular			
		recording			
US	20060105	Method and apparatus	360/126		Le; Quang
20060002024		for defining leading			et al.
A1		edge taper of a write			
		pole tip			
US	20060105	Magnetic head having	360/126	360/319	Le; Quang
20060002023		a deposited second			et al.
A1		magnetic shield and			
		fabrication method			
		therefor			
US	20060105	Method for fabricating	216/22		Chen;
20060000795		a pole tip in a			Tsung
A1		magnetic transducer			Yuan et al.
US	20060105	Methods of fabricating	216/22	216/41;	Le; Quang
20060000794		magnetic write heads		216/67	
A1		with side and trailing			
		shield structures			
US	20060105	Methods of making	29/603.25	29/603.07;	Bonhote;
20060000080		write coils using		360/123	Christian
A1		ruthenium seed layer			Rene et al.
		and reactive ion			
		etching in ozone gas			
		for seed layer removal			
US	20051215	Advanced low	438/763	438/778;	Nguyen,
20050277302		dielectric constant		438/786	Son Van et
A1		barrier layers			al.
US	20051215	Methods for	438/694		Le, Quang
20050277299		fabricating read sensor			et al.
Al		for magnetic heads			
		with reduced read			
		track width	L		

US 20050245096 A1	20051103	Method for fabricating an ultralow dielectric constant material as an intralevel or interlevel dielectric in a semiconductor device and electronic device made	438/778	257/E21.261; 257/E21.273; 257/E21.277	Gates, Stephen M. et al.
US 20050243598 A1	20051103	MRAM arrays and methods for writing and reading magnetic memory devices	365/158		Lin, Wen- Chin et al.
US 20050243465 A1	20051103	High aspect ratio co- planar structure fabrication consisting of different materials	360/126		Lille, Jeffrey S. et al.
US 20050241140 A1	20051103	High milling resistance write pole fabrication method for perpendicular recording	29/603.01	29/603.13; 360/122	Baer, Amanda et al.
US 20050237666 A1	20051027	Magnetic write head with recessed overcoat	360/126		Hsiao, Wen-Chien David et al.
US 20050234659 A1	20051020	Write line design in MRAM	702/46		Lin, Wen Chin et al.
US 20050219747 A1	20051006	Trailing edge taper design and method for making a perpendicular write head with shielding	360/126		Hsu, Yimin et al.
US 20050219744 A1	20051006	Method for manufacturing a perpendicular write head	360/126		Feldbaum, Michael et al.
US 20050218346 A1	20051006	System and method for passing particles on selected areas on a wafer	250/492.23	250/491.1; 250/492.2; 250/492.22; 250/492.24; 430/296; 430/5	Lin, Wen Chin et al.
US 20050215065 A1	20050929	Low dielectric constant porous films	438/758		Nguyen, Son Van et al.
US	20050922	Method of modifying	438/628	257/E21.26;	Campana

20050208759 A1		interlayer adhesion		257/E21.277; 257/E21.576; 257/E21.579; 438/622; 438/623; 438/638; 438/780	Schmitt, Francimar et al.
US 20050206469 A1	20050922	Interdigitated capacitor and method for fabrication therof	333/24.2	333/1.1	Lin, Wen- Chin et al.
US 20050201011 A1	20050915	Planarized perpendicular pole tip system and method for manufacturing the same	360/126		Dill, Frederick Hayes et al.
US 20050194619 A1	20050908	SiCOH dielectric material with improved toughness and improved Si-C bonding, semiconductor device containing the same, and method to make the same	257/232	257/E31.057	Edelstein, Daniel C. et al.
US 20050191804 A1	20050901	Method for forming a reduced active area in a phase change memory structure	438/238	438/102; 438/210; 438/382; 438/95	Lai, Li- Shyue et al.
US 20050190491 A1	20050901	Self-aligned, notched trailing shield for perpendicular recording	360/122	29/603.15	Le, Quang et al.
US 20050185338 A1	20050825	perpendicular pole tip and method of fabrication	360/126		Hsiao, Richard et al.
US 20050185334 A1	20050825	Method of depositing material into high aspect ratio features	360/123		Hsiao, Richard et al.
US 20050185332 A1	20050825	Perpendicular pole structure and method of fabricating the same	360/122	29/603.01; 29/603.07; 451/46	Hsiao, Richard et al.
US 20050184840 A1	20050825	Perpendicular pole structure and method of fabricating the same	335/197		Hsiao, Richard et al.
US 20050184397	20050825	Structures and methods for	257/774	257/751; 257/758;	Gates, Stephen

A1	<u> </u>	intergration of		257/E23.144;	McConnell
AI		ultralow-k dielectrics		257/E23.144; 257/E23.167;	et al.
		with improved		438/627;	ct ai.
		reliability		438/629	
US	20050804	Integrated capacitor	361/308.1		Tang,
20050168914					Denny et al.
A1					
US	20050721	Magnetic head having	360/321	29/603.01;	Hsiao,
20050157432		short pole yoke length		360/122	Richard et
A1		and method for			al.
		fabrication thereof			
US	20050721	Low k and ultra low k	257/632	257/636;	Gates,
20050156285		SiCOH dielectric films		257/646;	Stephen M.
A1		and methods to form		257/E23.167	et al.
US	20050714	the same	360/126		Bedell,
20050152064	20030714	Magnetic head coil system and	360/126		Daniel
A1		damascene/reactive			Wayne et
AI		ion etching method for			al.
		manufacturing the			ui.
		same		·	
US	20050707	Method of fabricating	428/119	428/156;	Kruger,
20050147793		a narrow projection		428/173	James
A1		such as a write pole			Bernard et
		extending from a			al.
		substrate			
US	20050414	System and method	250/492.2		Wang,
20050077485		for passing high			Chao-
A1		energy particles			Hsiung et
LIC	20050221	through a mask	451/5		al.
US	20050331	Slider fabrication	451/5		Kasiraj,
20050070206 A1		system for sliders with integrated electrical			Prakash et al.
AI		lapping guides			ai.
US	20050331	Head for	360/126		Hsu, Yimin
20050068678	20030331	perpendicular	300,120		et al.
Al		magnetic recording			
		with a shield structure			
		connected to the return			
		pole piece			
US .	20050331	Magnetic transducer	360/125		Hsu, Yimin
20050068671		for perpendicular			et al.
Al		magnetic recording			
		with single pole write			
		head with trailing			
		shield			

US 20050068669 A1	20050331	Head for perpendicular recording with a floating trailing shield	360/125		Hsu, Yimin et al.
US 20050068665 A1	20050331	Write pole fabrication for perpendicular recording	360/97.01	29/603.01; 360/122	Le, Quang et al.
US 20050055823 A1	20050317	Spin valve structure with Si seed layer and reduced PtMn antiferromagnetic layer thickness	29/603.01	29/603.13	Pinarbasi, Mustafa et al.
US 20050047014 A1	20050303	Apparatus for patterning a selfaligned coil using a damascene process	360/126		Bedell, Daniel Wayne et al.
US 20050045848 A1	20050303	Method for patterning a self-aligned coil using a damascene process	252/2		Bedell, Daniel Wayne et al.
US 20050044257 A1	20050224	Scalable device-to- device interconnection	709/232		Booth, Bradley J. et al.
US 20050035455 A1	20050217	Device with low-k dielectric in close proximity thereto and its method of fabrication	257/758		Hu, Chenming et al.
US 20050024779 A1	20050203	Method of making a perpendicular recording magnetic head pole tip with an etchable adhesion CMP stop layer	360/317	29/603.18; 360/126	Le, Quang et al.
US 20050024771 A1	20050203	Perpendicular recording magnetic head with a write shield magnetically coupled to a first pole piece	360/126		Le, Quang
US 20050024766 A1	20050203	Perpendicular recording magnetic head with a write shield magnetically coupled to a first pole piece	360/125	360/126	Khera, Gautam et al.

US 20050014361	20050120	Dielectric materials to prevent photoresist	438/623	438/790	Nguyen, Son Van et
Al		poisoning			al.
US 20050007705 A1	20050113	Thermally stable oxidized bias layer structure for magnetoresistive magnetic head for a hard disk drive	360/324.1	29/603.07	Dobisz, Elizabeth Ann et al.
US 20040264045 A1	20041230	Magnetic head having write head with helical coil and method for fabrication thereof	360/123		Dill, Frederick Hayes et al.
US 20040257701 A1	20041223	Magnetic head coil system and damascene/reactive ion etching method for manufacturing the same	360/126		Bedell, Daniel Wayne et al.
US 20040223267 A1	20041111	Current-perpendicular- to-plane magnetoresistive device with oxidized free layer side regions and method for its fabrication	360/324.2	29/603.14	Childress, Jeffrey R. et al.
US 20040190196 A1	20040930	Magnetic transducer with a write head having a multi-layer coil	360/123	360/314	Hsiao, Richard D. et al.
US 20040187107 A1	20040923	Techniques to interconnect chips	718/100		Beverly, Harlan T. et al.
US 20040179312 A1	20040916	Low resistance antiparallel tab magnetoresistive sensor	360/324.12		Freitag, James Mac et al.
US 20040177493 A1	20040916	Magnetic head coil structure and method for manufacturing the same	29/603.23	29/603.16; 29/603.25	Hsiao, Richard et al.
US 20040175929 A1	20040909	Method of improving interlayer adhesion	438/628	257/E21.26; 257/E21.277; 257/E21.576; 257/E21.579	Schmitt, Francimar Campana et al.
US	20040909	Modulated/composited	428/447	257/E21.261;	Nguyen,

20040175581		CVD low-k films with		257/E21.277	Son Van et
A1		improved mechanical			al.
		and electrical			
		properties for			
		nanoelectronic devices			
US	20040902	Ultra low k plasma	257/758	257/E21.576;	Nguyen,
20040169281		CVD nanotube/spin-		257/E21.581	Son Van et
A1		on dielectrics with			al.
		improved properties			
		for advanced			
		nanoelectronic device			
TIO	20040520	fabrication	525/220.1	525/221 0.	Dandan
US 20040097660	20040320	Hydrogenated nitrile rubbers with improved	525/329.1	525/331.9; 525/360	Bender, Harald et
A1		low-temperature		323/300	al.
		properties			ai.
US	20040513	Side wall passivation	438/627	257/E21.576;	Nguyen,
20040092095		films for damascene		257/E21.584;	Son Van et
A1		cu/low k electronic		438/628	al.
		devices			
US	20040513	Method of reducing	360/323	324/210	Hsiao,
20040090715		ESD damage in thin			Richard et
A1		film read heads which			al.
		enables measurement	:		
LIC	20040420	of gap resistance	260/122		TT-:
US 20040080866	20040429	Magnetic transducer with a write head	360/123		Hsiao, Richard D.
A1		having a multi-layer			et al.
Ai		coil			ct al.
US	20040422	Magnetic head coil	360/97.01	29/603.23;	Hsiao,
20040075938		structure and method		360/123;	Richard et
A1		for manufacturing the		360/125	al.
		same			
US	20040415	Method of making	360/126		Hsiao,
20040070875		magnetic head having			Richard et
A1		narrow pole tip and			al.
TIC	20040415	fine pitch coil	360/126		Dinon
US 20040070873	20040413	Self-aligned void filling for	300/120		Dinan, Thomas
A1		mushroomed plating			Edward et
***		madinodinoa plating			al.
US	20040415	Method of removing	216/58		Hsiao,
20040069746		magnetoresistive			Richard et
Al		sensor cap by reactive			al.
		ion etching			
US	20040311	HIGH MANGNETIC	360/126	1	Brusca,

20040047072		MOMENT CO-FE-O-			Brian E. et
Al		N FILMS WITH			al.
		SOFT MAGNETIC			
		PROPERTIES			
US	20040212	Method for seed layer	360/126		Hsiao,
20040027718		removal for magnetic			Richard et
A1		heads			al.
US	20040101	Planar magnetic head	360/126		Fontana,
20040001283		and fabrication			Robert E. et
A1		method therefor			al.
US	20040101	Narrow write head	360/125		Dinan,
20040001282		pole tip fabricated by			Thomas
A1		sidewall processing			Edward et
					al.
US	20040101	Apparatus and method	204/192.11	204/192.2;	Bus-
20040000477		for obtaining		204/298.04	Kwofie,
A1		symmetrical junctions			Raymond et
		between a read sensor			al.
TIC	20021218	and hard bias layers	260/224 12	20/602 19.	Children
US	20031218	Current-perpendicular-	360/324.12	29/603.18; 360/324.2	Childress,
20030231437		to-plane		360/324.2	Jeffrey R. et al.
A1		magnetoresistive device with oxidized			et al.
		free layer side regions			
		and method for its			
		fabrication			
US	20031127	Method of depositing	360/317	360/123	Hsiao,
20030218835	20031127	material into high	300,31,	300,123	Richard et
A1		aspect ratio features			al.
US	20031120	Protective cap in lead	360/322	360/324.1;	Freitag,
20030214761		overlay magnetic		360/324.2	James Mac
A1		sensors			et al.
US	20031113	Reacting an	427/255.28	257/E21.261;	Li, Lihua et
20030211244		organosilicon		427/551;	al.
A1		compound with an		427/58	
		oxidizing gas to form			
		an ultra low k			
		dielectric			
US	20031030	Method for forming	438/769		Kruger,
20030203645		thin film heads using a			James
A1		bi-layer anti-reflection			Bernard et
		coating for			al.
		photolithographic			
		applications and a			
TIO	00001000	structure thereof	420/600		XX7 1 1
US	20031030	Method for forming	428/688		Webb,

20030203237		thin film heads using a			Patrick R.
A1		tri-layer anti-reflection coating for photolithographic applications and a			et al.
		structure thereof			
US 20030193740 A1	20031016	Narrow projection such as a write pole extending from a substrate, and its fabrication	360/125		Kruger, James et al.
US 20030184920 A1	20031002	Method of protecting read sensors from electrostatic discharge damage during the manufacture of magnetic heads	360/323		Jarrett, James Devereaux et al.
US 20030184912 A1	20031002	Magnetic head coil structure and method for manufacturing the same	360/123		Hsiao, Richard et al.
US 20030182790 A1	20031002	Methods of making magnetic heads with improved contiguous junctions	29/603.15	29/603.12; 29/603.13	Hsiao, Richard et al.
US 20030179507 A1	20030925	Exchange biased self- pinned spin valve sensor with recessed overlaid leads	360/322	360/324.11	Freitag, James Mac et al.
US 20030174435 A1	20030918	Method and apparatus for providing an aligned coil for an inductive head structure using a patterned seed layer	360/97.01	29/602.1; 29/606; 336/200	Dinan, Thomas Edward et al.
US 20030161078 A1	20030828	Spin valve structure with si seed layer and reduced PtMn antiferromagnetic layer thickness	360/324.11		Pinarbasi, Mustafa et al.
US 20030151858 A1	20030814	Magnetic head assembly with electrostatic discharge (ESD) shunt/pads seed layer	360/323	360/234.5	Hsiao, Richard et al.
US	20030724	Method of making a	29/603.13	29/603.16;	Kruger,

20030135987 A1		narrow pole tip by ion beam deposition		29/603.23	James Bernard et al.
US 20030133225 A1	20030717	Magnetic head having short pole yoke length and method for fabrication thereof	360/126		Hsiao, Richard et al.
US 20030076626 A1	20030424	Magnetic head induction coil fabrication method utilizing aspect ratio dependent etching	360/123	216/22; 360/126	Hsiao, Richard et al.
US 20030043504 A1	20030306	Narrow write head pole tip fabricated by sidewall processing	360/126		Dinan, Thomas Edward et al.
US 20030011943 A1	20030116	Overlaid lead giant magnetoresistive head with side reading reduction	360/324.1	360/322	Webb, Patrick Rush et al.
US 20020191336 A1	20021219	Method of making magnetic head having narrow pole tip and fine pitch coil	360/126		Hsiao, Richard et al.
US 20020136990 A1	20020926	Method of manufacturing high aspect ratio photolithographic features	430/316	257/E21.035; 257/E21.044; 430/312; 430/313; 430/314; 430/317	Nguyen, Son Van et al.
US 20020128393 A1	20020912	Esbo enhanced hydrogenation	525/238		Guo, Sharon X. et al.
US 20020124151 A1	20020905	Method and apparatus for virtualized operator panel	712/1		Poimboeuf, Joshua Nathan et al.
US 20020123574 A1	20020905	Process for the production of hydrogenated nitrile rubber	525/331.9	524/313; 525/338	Nguyen, Paul et al.
US 20020120071 A1	20020829	Process for removing iron-and rhodium-containing catalyst residues from hydrogenated nitrile	525/333.3		Nguyen, Paul et al.

		rubber			
US 20020093762 A1	20020718	Method for seed layer removal for magnetic heads	360/126	29/603.23; 360/123	Hsiao, Richard et al.
US 20020089788 A1	20020711	Storage system slider having trailing edge pad and method for making the same	360/235.7		Baumgart, Peter M. et al.
US 20020085318 A1	20020704	Device and method of reducing ESD damage in thin film read heads which enables measurement of gap resistances and method of making	360/323		Hsiao, Richard et al.
US 20020085316 A1	20020704	Magnetic transducer with electrically conductive shield for reducing electromagnetic interference	360/319	29/603.07; 360/126	Hsiao, Richard et al.
US 20020084243 A1	20020704	Chemical mechanical polishing thickness control in magnetic head fabrication	216/13	216/22; 438/584; 438/692; 438/712	Hsiao, Richard et al.
US 20020083576 A1	20020704	ESD protection during GMR head fabrication	29/603.13		Hsiao, Richard et al.
US 20020030928 A1	20020314	Magnetic head having write head element with high aspect ration coil	360/123		Hsiao, Richard et al.
US 20010004797 A1	20010628	Method of making a read sensor for a merged magnetic head with self-aligned low resistance leads	29/603.07	216/22; 29/603.15	Hsiao, Richard
US 20010001586 A1	20010524	Planar stitched write head having write coil insulated with inorganic insulation	360/126		Dill, Frederick Hayes JR. et al.
US 20010001256 A1	20010517	Read sensor with self- aligned low resistance leads and method of making	360/246.6	29/603.03; 29/603.07; 29/603.13; 29/603.15; 360/244.2;	Hsiao, Richard

				360/265.7; 360/318	
US 7061729 B2	20060613	Protective cap in lead overlay magnetic sensors	360/322	360/324.1	Freitag; James Mac et al.
US 7060638 B2	20060613	Method of forming low dielectric constant porous films	438/787		Nguyen; Son Van et al.
US 7050290 B2	20060523	Integrated capacitor	361/312	361/305	Tang; Denny et al.
US 7049247 B2	20060523	Method for fabricating an ultralow dielectric constant material as an intralevel or interlevel dielectric in a semiconductor device and electronic device made	438/778	438/780; 438/782	Gates; Stephen M. et al.
US 7043823 B2	20060516	Method of manufacturing a current-perpendicular-to-plane magnetoresistive device with oxidized free layer side regions	29/603.07	216/22; 216/40; 216/41; 29/603.12; 29/603.13; 29/603.14; 29/603.15; 29/603.16; 29/603.18; 360/313; 360/324.2	Childress; Jeffrey R. et al.
US 7037847 B2	20060502	Methods for fabricating read sensor for magnetic heads with reduced read track width	438/712	438/241	Le; Quang et al.
US 7035083 B2	20060425	Interdigitated capacitor and method for fabrication thereof	361/321.1	257/253; 257/254; 361/301.2; 361/301.4; 361/306.1; 361/321.2	Lin; Wen- Chin et al.
US 7031121 B2	20060418	Perpendicular recording magnetic head with a write shield magnetically coupled to a first pole piece	360/317	360/319	Khera; Gautam et al.

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US 7030468 B2	20060418	Low k and ultra low k SiCOH dielectric films and methods to form the same	257/632	174/138R; 257/633; 257/634; 257/635; 257/636; 257/644; 257/645; 257/646	Gates; Stephen M. et al.
US 7024756 B2	20060411	Method of making a perpendicular recording magnetic head pole tip with an etchable adhesion CMP stop layer	29/603.12	204/192.2; 204/192.34; 216/22; 216/48; 216/52; 29/603.15; 29/603.16; 29/603.18	Le; Quang et al.
US 7022248 B2	20060404	Method for patterning a self-aligned coil using a damascene process	216/22	216/13; 216/17; 216/18; 216/88; 216/89; 29/603.01	Bedell; Daniel Wayne et al.
US 7014530 B2	20060321	Slider fabrication system for sliders with integrated electrical lapping guides	451/8	451/41	Kasiraj; Prakash et al.
US 7011890 B2	20060314	Modulated/composited CVD low-k films with improved mechanical and electrical properties for nanoelectronic devices	428/447	257/E21.261; 257/E21.277; 426/131; 427/101; 427/387; 427/470; 427/489; 427/494; 427/495; 427/508; 427/515; 427/595	Nguyen; Son Van et al.
US 7009812 B2	20060307	Magnetic transducer for perpendicular magnetic recording with single pole write head with trailing shield	360/126		Hsu; Yimin et al.
US 7002775 B2	20060221	Head for perpendicular	360/125		Hsu; Yimin et al.

US 6996894 B2	20060214	magnetic recording with a shield structure connected to the return pole piece Methods of making magnetic heads with improved contiguous junctions	29/603.12	204/192.34; 216/22; 216/40; 29/603.13; 29/603.15; 29/603.16;	Hsiao; Richard et al.
US 6987646 B2	20060117	Method of making magnetic head having narrow pole tip and fine pitch coil	360/126	29/603.18; 360/322 360/125	Hsiao; Richard et al.
US 6984579 B2	20060110	Ultra low k plasma CVD nanotube/spin- on dielectrics with improved properties for advanced nanoelectronic device fabrication	438/622	257/750; 257/758; 257/E21.576; 257/E21.581; 438/618; 977/890	Nguyen; Son Van et al.
US 6949200 B2	20050927	Planar magnetic head and fabrication method therefor	216/22	216/38; 216/39; 216/75; 29/603.07	Fontana; Robert E. et al.
US 6948231 B2	20050927	Method of depositing material into high aspect ratio features	29/603.25	216/62; 216/65; 216/66; 29/603.13; 29/603.14; 29/606; 360/122; 360/126; 360/317; 427/127; 427/128; 451/41; 451/5	Hsiao; Richard et al.
US 6944937 B2	20050920	Method of reducing ESD damage in thin film read heads which enables measurement of gap resistance	29/603.09	29/603.07; 29/603.11; 29/603.13; 29/603.14; 29/605; 29/606; 29/609;	Hsiao; Richard et al.

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				324/309;	
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				360/313;	
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				360/322;	
				360/323;	
				360/324;	
				427/127;	
				427/128;	
				451/41; 451/5	
US 6927940	20050809	Method for seed layer	360/126	360/123	Hsiao;
B2	20030809	removal for magnetic	300/120	300/123	Richard et
B2		heads			al.
US 6919280	20050719		438/710	129/712.	
	20030/19	Method of removing	438//10	438/712;	Hsiao;
B2		magnetoresistive		438/722	Richard et
		sensor cap by reactive			al.
770 (01000		ion etching	100/600	0.55 (50.1.0)	<u> </u>
US 6913992	20050705	Method of modifying	438/628	257/E21.26;	Schmitt;
B2		interlayer adhesion		257/E21.277;	Francimar
				257/E21.576;	Campana et
			:	257/E21.579;	al.
				438/622;	
				438/623;	
				438/638	
US 6913704	20050705	Magnetic head	216/22	216/52;	Hsiao;
B2		induction coil		216/67;	Richard et
		fabrication method		216/72;	al.
		utilizing aspect ratio		216/74;	
		dependent etching	1	216/75	
US 6901653	20050607	Process for	29/603.25	216/39;	Hsiao;
B2		manufacturing a		216/47;	Richard et
		magnetic head coil		29/603.23;	al.
1		structure		29/606;	
				336/200;	
				360/123	
US 6878620		i e	 		\
(),7 () \ / \ / \ / \ / \ / \ / \ / \ / \ / \	20050412	Side wall passivation	438/633	1 257/E21.576·	Nguven:
	20050412	Side wall passivation	438/633	257/E21.576; 257/E21.584	Nguyen; Son Van et
B2	20050412	films for damascene	438/633	257/E21.584;	Son Van et
	20050412	films for damascene cu/low k electronic	438/633	257/E21.584; 438/634;	
	20050412	films for damascene	438/633	257/E21.584;	Son Van et

				438/644	
US 6878240 B2	20050412	Apparatus and method for obtaining symmetrical junctions between a read sensor and hard bias layers	204/192.11	204/298.04; 204/298.15; 427/131	Bus- Kwofie; Raymond et al.
US 6873535 B1	20050329	Multiple width and/or thickness write line in MRAM	365/66	257/E21.665; 257/E27.005; 365/158; 365/171; 365/51; 365/63; 438/3	Lin; Wen Chin et al.
US 6870705 B2	20050322	Magnetic head having short pole yoke length and method for fabrication thereof	360/126	360/123	Hsiao; Richard et al.
US 6862798 B2	20050308	Method of making a narrow pole tip by ion beam deposition	29/603.13	204/192.15; 205/119; 205/122; 216/39; 216/41; 29/603.07; 29/603.15; 29/603.16; 29/603.18; 360/122; 360/126; 360/317; 427/127; 427/128	Kruger; James Bernard et al.
US 6859998 B2	20050301	Method of fabricating a narrow projection such as a write pole extending from a substrate	29/603.13	204/192.1; 204/192.11; 216/11; 216/22; 216/47; 29/603.12; 29/603.15; 29/DIG.16; 360/122; 360/125; 430/315; 430/320	Kruger; James et al.
US 6859347 B2	20050222	Magnetic transducer with electrically conductive shield for	360/319		Hsiao; Richard et al.

		reducing electromagnetic interference			
US 6819527 B1	20041116	Magnetic head with lower coil traces connected to integrally formed vertical interconnects and upper coil traces through plural insulating layer arrangement	360/123	360/126	Dill; Frederick Hayes et al.
US 6804879 B2	20041019	Method of fabricating a magnetic transducer with a write head having a multi-layer coil	29/603.24	216/22; 216/47; 216/48; 216/87; 29/603.16; 29/603.23; 29/603.25; 360/119; 360/122; 360/123	Hsiao; Richard D. et al.
US 6804878 B1	20041019	Method of improving the reliability of magnetic head sensors by ion milling smoothing	29/603.12	204/192.34; 216/22; 216/52; 216/66; 29/603.15; 29/603.16; 29/603.18; 451/41	Campbell; Richard Thomas et al.
US 6801206 B2	20041005	Method and apparatus for virtualized operator panel	345/556	345/544; 711/153; 711/173	Poimboeuf; Joshua Nathan et al.
US 6795278 B2	20040921	Method of protecting read sensors from electrostatic discharge damage during the manufacture of magnetic heads	360/323		Jarrett; James Devereaux et al.
US 6792577 B1	20040914	Data distribution method and apparatus, and data receiving method and apparatus	715/522	380/255; 380/258; 705/50; 705/67; 705/71;	Kimoto; Yosuke

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				715/513; 715/523	
US 6785101 B2	20040831	Overlaid lead giant magnetoresistive head with side reading reduction	360/324.1	713/323	Webb; Patrick Rush et al.
US 6778433 B1	20040817	High programming efficiency MRAM cell structure	365/173	365/158; 365/171	Tang; Denny
US 6776917 B2	20040817	Chemical mechanical polishing thickness control in magnetic head fabrication	216/88	216/89; 216/94; 438/691; 438/692; 451/29	Hsiao; Richard et al.
US 6744607 B2	20040601	Exchange biased self- pinned spin valve sensor with recessed overlaid leads	360/322		Freitag; James Mac et al.
US 6741422 B2	20040525	Method of making magnetic head having narrow pole tip and fine pitch coil	360/126	29/603.15	Hsiao; Richard et al.
US 6723252 B1	20040420	Magnetic head P1 magnetic pole notching with reduced polymer deposition	216/22	216/37; 216/66; 216/75	Hsiao; Richard et al.
US 6711053 B1	20040323	Scaleable high performance magnetic random access memory cell and array	365/158	365/171; 365/173	Tang; Denny
US 6683136 B2	20040127	Epoxidized soybean oil enhanced hydrogenation of nitrile copolymer	525/329.3	524/464; 525/338; 525/339	Guo; Sharon X. et al.
US 6678127 B2	20040113	Device and method of reducing ESD damage in thin film read heads which enables measurement of gap resistances and method of making	360/323		Hsiao; Richard et al.
US 6664026 B2	20031216	Method of manufacturing high aspect ratio photolithographic features	430/311	216/72; 257/E21.035; 257/E21.044; 427/249.7; 430/313;	Nguyen; Son Van et al.

				430/316; 430/317; 430/318; 438/702	
US 6655007 B2	20031202	Method of making a read sensor for a merged magnetic head with self-aligned low resistance leads	29/603.12	204/192.34; 216/22; 216/66; 216/67; 29/603.07; 29/603.13; 29/603.18	Hsiao; Richard
US 6650511 B2	20031118	Magnetic head assembly with electrostatic discharge (ESD) shunt/pads seed layer	360/323		Hsiao; Richard et al.
US 6646059 B2	20031111	Process for removing iron-and rhodium-containing catalyst residues from hydrogenated nitrile rubber	525/338	525/332.8; 525/332.9; 525/333.1; 525/333.2; 525/339; 525/351; 525/352	Nguyen; Paul et al.
US 6631546 B1	20031014	Self-aligned void filling for mushroomed plating	29/603.07	216/22; 216/49; 216/67; 29/846; 29/847; 427/96.2	Dinan; Thomas Edward et al.
US 6623652 B1	20030923	Reactive ion etching of the lapped trailing edge surface of a slider	216/22	216/67; 216/72; 216/80; 29/603.07	Hsiao; Richard et al.
US 6621660 B2	20030916	Thin film magnetic head	360/126	360/123	Hsiao; Richard et al.
US 6609948 B1	20030826	Method of making an electronic lapping guide (ELG) for lapping a read sensor	451/5	29/603.14; 29/603.16; 451/1; 451/11; 451/259; 451/28	Fontana, Jr.; Robert Edward et al.
US 6606263 B1	20030812	Non-disturbing programming scheme for magnetic RAM	365/158	365/171; 365/173	Tang; Denny
US 6602962	20030805	Process for the	525/338	525/329.3;	Nguyen;

B2		production of hydrogenated nitrile rubber		525/339	Paul et al.
US 6589436 B1	20030708	Method of adjusting the flatness of a slider using selective plasma etching	216/52	216/2; 216/22; 216/65; 216/66; 216/67; 219/121.69; 219/121.73; 29/603.12; 360/235.4; 360/318.1	Tabib; Jila et al.
US 6570739 B2	20030527	Magnetic head having write head element with high aspect ratio coil	360/123	360/317	Hsiao; Richard et al.
US 6516367 B1	20030204	Method and system for detecting bus device configuration changes	710/109	710/104; 713/2	Barenys; Michael Anton et al.
US 6515826 B1	20030204	Magnetic head induction coil fabrication method utilizing aspect ratio dependent etching	360/126	360/123	Hsiao; Richard et al.
US 6507456 B1	20030114	Dual coil and lead connections fabricated by image transfer and selective etch	360/123		Dinan; Thomas Edward et al.
US 6503406 B1	20030107	Method for forming the air bearing surface of a slider using nonreactive plasma	216/22	216/41; 216/49; 216/51; 216/67; 216/81; 29/603.15; 430/961	Hsiao; Yiping et al.
US 6495439 B1	20021217	Method for suppressing pattern distortion associated with BPSG reflow and integrated circuit chip formed thereby	438/597	257/E21.279; 257/E21.576; 257/E23.167; 438/602; 438/760; 438/763	Gambino; Jeffrey Peter et al.
US 6489255 B1	20021203	Low temperature/low dopant oxide glass film	438/784	257/E21.275; 438/632; 438/787;	Nguyen; Son Van et al.

				438/790	
US 6483172 B1	20021119	Semiconductor device structure with hydrogen-rich layer for facilitating passivation of surface states	257/639	257/640; 257/760; 257/E21.194; 257/E21.212; 257/E21.269; 257/E21.654	Cote; Donna Rizzone et al.
US 6477011 B1	20021105	Magnetic recording device having an improved slider	360/235.1		Hsiao; Richard et al.
US 6470566 B2	20021029	ESD protection during GMR head fabrication	29/603.13	29/603.07; 360/323	Hsiao; Richard et al.
US 6466408 B2	20021015	Storage system slider having trailing edge pad and method for making the same	360/235.7		Baumgart; Peter M. et al.
US 6437950 B1	20020820	Top spin valve sensor that has an iridium manganese (IrMn) pinning layer and an iridium manganese oxide (IrMnO) seed layer	360/324.11	360/324.12	Chau; Phong et al.
US 6416935 B1	20020709	Method for forming the air bearing surface of a slider	430/320	360/122	Hsiao; Yiping et al.
US 6399976 B1	20020604	Shrink-wrap collar for DRAM deep trenches	257/301	257/303; 257/306; 257/310; 257/311; 257/410; 257/443; 257/59; 257/72; 257/E21.396; 257/E21.651	Geiss; Peter John et al.
US 6379570 B1	20020430	Method of making high definition chevron type MR sensor	216/22	204/192.1; 216/41; 216/49; 29/603.01; 29/603.18	Fatula, Jr.; Joseph John et al.
US 6377423 B2	20020423	Planar stitched write head having write coil insulated with inorganic insulation	360/126		Dill, Jr.; Frederick Hayes et al.

US 6346183 B1	20020212	Use of thin carbon films as a bottom antireflective coating in manufacturing magnetic heads	205/119	204/192.2; 427/131	Baer; Amanda et al.
US 6338939 B1	20020115	Embedded dual coil fabrication process	430/320	29/603.14; 29/603.15; 29/603.18; 29/603.25; 430/314; 430/319	Clarke; Thomas Carl et al.
US 6328859 B1	20011211	Method of making second pole tip of a write head with a narrow track width	204/192.34	204/192.33	Hsiao; Richard et al.
US 6326794 B1	20011204	Method and apparatus for in-situ monitoring of ion energy distribution for endpoint detection via capacitance measurement	324/678	324/464	Lundquist; Paul Matthew et al.
US 6306266 B1	20011023	Method of making a top spin valve sensor with an in-situ formed seed layer structure for improving sensor performance	204/192.12	204/192.11	Metin; Serhat et al.
US 6239955 B1	20010529	Stabilized MR sensor and heat guide joined by contiguous junction	360/321		Dovek; Moris Musa et al.
US 6226149 B1	20010501	Planar stitched write head having write coil insulated with inorganic insulation	360/126	29/603.14	Dill, Jr.; Frederick Hayes et al.
US 6209193 B1	20010403	Method of making read sensor with self- aligned low resistance leads	29/603.15	216/22; 216/49; 216/66; 216/72; 29/603.11; 29/603.13; 29/603.18; 360/319; 360/320	Hsiao; Richard
US 6191918 B1	20010220	Embedded dual coil planar structure	360/126		Clarke; Thomas

					Carl et al.
US 6181532 B1	20010130	Stabilized MR sensor and flux/heat guide joined by contiguous junction	360/321	360/327.3	Dovek; Moris Musa et al.
US 6168845 B1	20010102	Patterned magnetic media and method of making the same using selective oxidation	428/836	204/192.2; 427/128; 427/130; 427/131; 427/250; 427/255.19; 427/255.4; 427/267; 427/269; 427/269; 427/282; 427/331; 427/398.4; 427/404; 427/405; 427/409; 427/409; 427/409; 427/45; 427/552; 427/576; 427/576; 427/595; 428/450; 428/450; 428/450; 428/701; 428/704; 428/704; 428/704; 428/704; 428/900	Fontana, Jr.; Robert Edward et al.
US 6162582 A	20001219	Method of making a high resolution lead to shield short-resistant read head	430/312	360/320; 360/322; 430/315; 430/319	Hsiao; Richard et al.
US 6162305 A	20001219	Method of making spin valve read head with plasma produced metal oxide insulation layer between lead and shield layers	148/280	148/284; 148/DIG.117; 29/603.07	Hsiao; Richard et al.

US 6132813 A	20001017	High density plasma surface modification for improving antiwetting properties	427/490	427/127; 427/309; 427/491; 427/535; 427/536; 427/569	Chen; Pei C. et al.
US 6118623 A	20000912	High definition chevron type MR sensor	360/320	360/313	Fatula, Jr.; Joseph John et al.
US 6074566 A	20000613	Thin film inductive write head with minimal organic insulation material and method for its manufacture	360/123	216/13; 216/22; 216/27; 216/34; 216/49; 252/79.1; 252/79.4; 29/603.18; 360/122; 360/125; 360/126; 427/532; 427/534; 427/535; 427/548	Hsiao; Richard et al.
US 6069049 A	20000530	Shrink-wrap collar from DRAM deep trenches	438/386	257/E21.396; 257/E21.651; 438/243; 438/248; 438/391	Geiss; Peter John et al.
US 6051099 A	20000418	Apparatus for achieving etch rate uniformity	156/345.37	118/723E; 118/724	Bus- Kwoffie; Raymond et al.
US 6031695 A	20000229	Combined read head and write head with non-magnetic electrically conductive layer on upper pole tip thereof	360/126	360/121; 360/122; 360/317	Hsiao; Richard et al.
US 6027968 A	20000222	Advanced damascene planar stack capacitor fabrication method	438/254	257/E21.016; 257/E21.647	Nguyen; Son Van et al.
US 6027660 A	20000222	Method of etching ceramics of alumina/TiC with high density plasma	216/22	216/71; 216/76; 216/81	Hsiao; Richard et al.

US 6013583 A	20000111	Low temperature BPSG deposition process	438/783	257/E21.243; 257/E21.275; 438/787; 438/790	Ajmera; Atul C. et al.
US 6005944 A	19991221	System and method for constructing block ciphers	380/42		Blaze; Matthew A.
US 6004473 A	19991221	Magnetic write head having a coil with submicron pitch	216/22	216/72; 29/603.18	Hsiao; Richard et al.
US 6004256 A	19991221	Catalytic distillation oligomerization of vinyl monomers to make polymerizable vinyl monomer oligomers uses thereof and methods for same	585/517	508/503; 508/507; 508/508; 508/510	Townsend; Phillip et al.
US 6001268 A	19991214	Reactive ion etching of alumina/TiC substrates	216/67	216/74; 216/76; 216/77	Nguyen; Son Van et al.
US 5999379 A	19991207	Spin valve read head with plasma produced metal oxide insulation layer between lead and shield layers and method of making	360/320		Hsiao; Richard et al.
US 5994215 A	19991130	Method for suppression pattern distortion associated with BPSG reflow	438/624	257/760; 257/E21.576; 438/760	Gambino; Jeffrey Peter et al.
US 5978183 A	19991102	High resolution lead to shield short-resistant read head	360/320	360/322	Hsiao; Richard et al.
US 5973385 A	19991026	Method for suppressing pattern distortion associated with BPSG reflow and integrated circuit chip formed thereby	257/644	257/650; 257/760; 257/E21.279; 257/E21.576; 257/E23.167; 428/210	Gambino; Jeffrey Peter et al.
US 5930084 A	19990727	Stabilized MR sensor and flux guide joined by contiguous junction	360/321		Dovek; Moris Musa et al.
US 5901432 A	19990511	Method for making a thin film inductive write head having a pedestal pole tip and	29/603.14	205/122; 216/22; 29/603.15; 29/603.18	Armstrong; Michael et al.

		an electroplated gap			
US 5893981 A	19990413	Method of making stabilized MR sensor and flux guide joined by contiguous junction	216/22	216/41	Dovek; Moris Musa et al.
US 5885750 A	19990323	Tantalum adhesion layer and reactive-ion- etch process for providing a thin film metallization area	430/314	204/192.17; 204/192.2; 257/E21.535; 257/E21.589; 427/97.2; 427/97.4; 430/318	Hsiao; Richard et al.
US 5867890 A	19990209	Method for making a thin film merged magnetoresistive read/inductive write head having a pedestal pole tip	29/603.14	216/22; 29/603.15; 29/603.18; 360/317	Hsiao; Richard et al.
US 5855962 A	19990105	Flowable spin-on insulator	427/376.2	257/E21.271; 427/387; 427/58; 438/562; 438/918	Cote; Donna Rizzone et al.
US 5770469 A	19980623	Method for forming semiconductor structure using modulation doped silicate glasses	438/246	257/E21.278; 257/E21.576; 257/E23.118; 438/240; 438/424; 438/429; 438/982	Uram; Kevin J. et al.
US 5753948 A	19980519	Advanced damascene planar stack capacitor fabrication method	257/307	257/309; 257/310; 257/532; 257/E21.016; 257/E21.647	Nguyen; Son Van et al.
US 5714798 A	19980203	Selective deposition process	257/642	257/634; 257/702; 257/E21.259; 257/E21.549	Armacost; Michael David et al.
US 5648113 A	19970715	Aluminum oxide LPCVD system	427/8	427/126.4; 427/226; 427/248.1; 427/255.34	Barbee; Steven George et al.
US 5540777 A	19960730	Aluminum oxide LPCVD system	118/667	118/668; 118/708; 118/712;	Barbee; Steven G. et al.

				118/715;	
				118/719;	
				118/726	
US 5421507	19950606	Au-Sn transient liquid	228/194	228/195;	Davis;
Α		bonding in high	:	228/198	Charles R.
		performance laminates			et al.
US 5292688	19940308	Solder interconnection	29/840	257/E21.503;	Hsiao;
Α		structure on organic		257/E21.511;	Richard et
		substrates and process		257/E23.007;	al.
		for making		257/E23.121;	
	1	_		29/841	
US 5280414	19940118	Au-Sn transient liquid	361/795	156/252;	Davis;
Α		bonding in high		174/255;	Charles R.
		performance laminates		174/256;	et al.
				174/257;	
				174/258;	
				29/830;	
				361/777;	
				361/778;	
				428/901	
US 5121190	19920609	Solder interconnection	257/778	228/180.1;	Hsiao;
Α		structure on organic		228/180.22;	Richard et
		substrates		257/786;	al.
				257/E21.503;	
				257/E21.511;	
				257/E23.007;	
				257/E23.121;	
				361/764;	
				361/765	